

- UFI:

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.11.2022 Version number 5 (replaces version 4) Revision: 18.11.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

BTC-20 NF

1800-P0U6-S00N-TAE9

- 1.1 Product identifier

- Trade name:

- 1.2 Relevant identified uses of the

substance or mixture and uses advised against

Identified use: intended for professional use only! - Application of the substance / the mixture Coolant/ Cutting solution

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

ABICOR-BINZEL (UK) Ltd. Mill Lane Winwick Quay, Warrington WA28UA UK Contact Person: Kevin Chudley

Email: kevin.chudley@binzel-abicor.co.uk Contact Number: 01925 653944

- Further information obtainable from:

- 1.4 Emergency telephone number:

Technical Documentation

Medical Emergency information in case of poisoning:

Poison Information Center Mainz - 24 h - Phone: +49 (0) 6131 19240

(advisory service in German or English language)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- 2.2 Label elements
- Labelling according to Regulation (EC) No
- 1272/2008

- Hazard pictograms

The product is classified and labelled according to the GB CLP regulation.



- Signal word - Hazard-determining components of

labelling:

Warning

- Hazard statements

ethanediol

H373 May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray. P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PRT - vPvB:

Not applicable. Not applicable.

SECTION 3: Composition/information on ingredients

ethanediol

- 3 2 Mixtures

CAS: 107-21-1

- Description: Mixture: consisting of the following components

- Dangerous components:

EINECS: 203-473-3

Index number: 603-027-00-1 Reg.nr.: 01-2119456816-28

STOT RE 2, H373; Acute Tox. 4, H302

25-50%

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- After inhalation:

- After skin contact:

- After eye contact:

- After swallowing:

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.

Do not leave affected persons unattended.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment in case of complaints.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Protect unharmed eye.

Seek medical treatment.

If symptoms persist consult doctor.

- 4.2 Most important symptoms and effects,

both acute and delayed

 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing

agents:

5.2 Special hazards arising from the

substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NOx) Carbon monoxide (CO)

Water with full jet

- 5.3 Advice for firefighters

- **Protective equipment:**Do not inhale explosion gases or combustion gases.

Additional information
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective

equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation
Wear protective clothing.
Avoid contact with skin and eves

- **6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.

Prevent from spreading (e.g. by damming-in or oil barriers). Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment

- 6.4 Reference to other sections

and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and

receptacles:

Store only in the original receptacle.

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Store away from foodstuffs.

storage facility:
- Further information about storage

- Information about storage in one common

conditions:

Store in dry conditions.

Keep container tightly sealed.

Recommended storage temperature: 5-30 °C

- Storage class: 1

- **7.3 Specific end use(s)**No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

107-21-1 ethanediol

WEL Short-term value: 104** mg/m³, 40** ppm Long-term value: 10* 52** mg/m³, 20** ppm

Sk *particulate **vapour

- Regulatory information WEL: EH40/2020

- Additional information: The lists valid during the making were used as basis.

- 8.2 Exposure controls

Appropriate engineering controls
 Individual protection measures, such as personal protective equipment

- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Respiratory protection: When used properly and under normal conditions, breathing protection is not required.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

Respiratory protection - Gas filters and combination filters according to (DIN EN 141)

- Hand protection

III.S.

Protective gloves

Check protective gloves prior to each use for their proper condition.

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and

the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

- Material of gloves Nitrile rubber, NBR

Recommended thickness of the material: $\geq 0.1 \text{ mm}$

Penetration time (min.): < 10

- Penetration time of glove material The determined penetration times according to EN 16523-1:2015 are not performed under practical

Fluid

Colourless

Characteristic

Not determined

conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is

recommended.

- Eye/face protection

1

Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166

- Body protection: protective clothing (EN 13034)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- General Information

- Physical state
- Colour:
- Odour:
- Odour threshold:

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(Contd. of page 3) - Melting point/freezing point: Undetermined. - Boiling point or initial boiling point and boiling range 100 °C (7732-18-5 water, distilled, conductivity or of similar purity) - Flammability Not applicable. - Lower and upper explosion limit 3.2 Vol % (107-21-1 ethanediol) - Lower: 53 Vol % (107-21-1 ethanediol) - Upper: - Flash point: 111 °C (107-21-1 ethanediol) - Decomposition temperature: Not determined. - pH at 20 °C Viscosity: - Kinematic viscosity at 40 °C 8.7 mm²/s - Dynamic at 20 °C: 13 mPas - Solubility - water: Fully miscible. - Partition coefficient n-octanol/water (log value) Not determined. - Density and/or relative density - Density at 20 °C: 1.03 g/cm3 - Relative density Not determined. - Vapour density Not determined. - 9.2 Other information - Appearance: Fluid - Form: - Important information on protection of health and environment, and on safety. - Auto-ignition temperature: Product is not selfigniting. - Explosive properties: Product does not present an explosion hazard. - Change in condition - Evaporation rate Not determined. - Information with regard to physical hazard classes - Explosives Void - Flammable gases Void - Aerosols Void - Oxidising gases Void - Gases under pressure Void - Flammable liquids Void - Flammable solids Void - Self-reactive substances and mixtures Void - Pyrophoric liquids Void - Pyrophoric solids Void - Self-heating substances and mixtures Void - Substances and mixtures, which emit flammable gases in contact with water Void - Oxidising liquids Void - Oxidising solids Void

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- Organic peroxides

Void

- Corrosive to metals

Void

- Desensitised explosives

Void

- Other safety characteristics

- Conductivity

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SECTION 10: Stability and reactivity

No further relevant information available. - 10.1 Reactivity

- 10.2 Chemical stability

- Thermal decomposition / conditions to be

avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions

No dangerous reactions known.

- 10.4 Conditions to avoid

No further relevant information available. No further relevant information available.

- 10.5 Incompatible materials: - 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Based on available data, the classification criteria are not met. - Acute toxicity

- LD/LC50 values relevant for classification:

107-21-1 ethanediol

Oral LD50 7,712 mg/kg (rat)

LDLo ~1,600 mg/kg (human) ((EU)) Dermal LD50 >3,500 mg/kg (mouse)

9,530 mg/kg (rabbit)

LC50 >2.5 mg/l (rat) (6h; as aerosol)

- Skin corrosion/irritation

Based on available data, the classification criteria are not met. - Serious eye damage/irritation Based on available data, the classification criteria are not met.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

- Germ cell mutagenicity Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. - Carcinogenicity

- Reproductive toxicity Based on available data, the classification criteria are not met.

- STOT-single exposure Based on available data, the classification criteria are not met.

- STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

- Aspiration hazard Based on available data, the classification criteria are not met.

- 11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

107-21-1 ethanediol

EC20 |>1,995 mg/l (Belebtschlamm) (0,5h; ISO 8192)

>10,000 mg/l (ALGAE)

>100 mg/l (Daphnia magna) (48h; OECD 202)

6,500-13,000 mg/l (Selenastrum capricornutum) (96h)

NOEC 8,590 mg/l (Ceriodaphnia dubia) (7d)

18,000 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h)

72,860 mg/l (Pimephales promelas) (96h; static test)

NOEC 15,380 mg/l (Pimephales promelas) (7d) - 12.2 Persistence and degradability

No further relevant information available.

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- 12.4 Mobility in soil

- vPvR

No further relevant information available.

No further relevant information available

- 12.5 Results of PBT and vPvB assessment

- PBT:

- 12.6 Endocrine disrupting properties

- 12.7 Other adverse effects

- 12.3 Bioaccumulative potential

Additional ecological information:

- General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage

system.

Not applicable. Not applicable.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

The product does not contain substances with endocrine disrupting properties.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal according to official regulations

- European waste catalogue

14 06 03* other solvents and solvent mixtures

15 01 02 plastic packaging

- Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.

- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN number or ID number

- ADR, ADN, IMDG, IATA Void

- 14.2 UN proper shipping name

- ADR, ADN, IMDG, IATA Void

- 14.3 Transport hazard class(es)

- ADR, ADN, IMDG, IATA

- Class Void

- 14.4 Packing group

- ADR, IMDG, IATA Void

- 14.5 Environmental hazards:

- Marine pollutant: No

- 14.6 Special precautions for user Not applicable

- 14.7 Maritime transport in bulk according to IMO instruments Not applicable

- UN "Model Regulation": Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.

- REGULATION (EC) No 1907/2006 ANNEX

Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

- Relevant phrases

H373 May cause damage to organs through prolonged or repeated exposure.

- Department issuing SDS: **Technical Documentation** - Contact: **Technical Documentation**

- Date of previous version: 29.11.2021

- Version number of previous version:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International - Abbreviations and acronyms:

Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- Sources - www.echa.europa.eu - www.baua.de

IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:

- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp

- www.dguv.de/ifa/gestis/gestis-dnel-liste

- * Data compared to the previous version altered.

FN-GB